SECTION 5-05, CEMENT CONCRETE PAVEMENT
April 7, 2003

5-05.3(1) Concrete Mix Design for Paving

Number 2 in this section is revised to read:

2. **Submittals**. The Contractor's submittal shall include the mix proportions per cubic yard and the proposed sources for all ingredients including the power plant that generated the fly ash. The mix shall be capable of providing a minimum flexural strength of 650 psi at 14 days. Evaluation of strength shall be based on statistically analyzed results of 5 beam specimens made according to WSDOT T 808 and tested according to WSDOT T 802 that demonstrate a quality level of not less than 80 percent analyzed in accordance with Section 1-06.2(2)D. In addition the Contractor shall fabricate, cure, and test 5 sets of cylinders, for evaluation of both 14 and 28 day strengths, according to WSDOT FOP's for AASHTO T 22 and AASHTO T 23 using the same mix design as used in fabrication of the beams. Compressive strength data (for both 14 and 28 day strength) shall be submitted to the engineer for use in determination of a conversion factor of flexural strength to compressive strength, which will be used by the Engineer for strength acceptance testing.

   Mix designs submitted by the Contractor shall provide a unique identification for each proposal and shall include test data confirming that concrete made in accordance with the proposed design will meet the requirements of these Specifications. Test data shall be from an independent testing lab or from a commercial concrete producer's lab. If the test data is developed at a producer's lab, the Engineer or a representative may witness all testing.

The second paragraph under number 3 in this section is supplemented with the following:

Only non-chloride accelerating admixtures that meet the requirements of Section 9-23.6 Admixture for Concrete, shall be used.

5-05.3(4)A Acceptance of Portland Cement Concrete Pavement

In the third sentence of the tenth paragraph, the reference to "1000 psi" is revised to "1200 psi":

5-05.3(10) Tie Bars and Dowel Bars

In the seventh paragraph, the first sentence is deleted and replaced by the following:

When new cement concrete pavement is to be placed against existing cement concrete pavement, epoxy-coated tie bars shall be drilled and set into the existing pavement with an epoxy bonding agent in accordance with the Standard Plan and specified tolerances for placement of the tie bars. The epoxy bonding agent shall meet the requirements of Section 9-26.1 for Type I epoxy.

5-05.3(18) Cement Concrete Approach

This section including title is revised to read:

5-05.3(18) Vacant

5-05.3(19) Reinforced Concrete Bridge Approach Slabs

The fifth paragraph is revised to read:

Reinforced concrete bridge approach slab anchors shall be installed as detailed in the Plans. The anchor rods, couplers, and nuts shall conform to Section 9-06.5(1). The steel plates shall conform to ASTM A 36. All metal parts shall receive one coat of formula A-11-99 paint. The pipe shall be any non-perforated PE or PVC pipe of the diameter specified in the Plans. Polystyrene shall conform to Section 9-04.6. The anchors shall be installed parallel both to profile grade and center line of roadway. The Contractor shall secure the anchors to ensure that they will not be misaligned during concrete placement. For Method B anchor installations, the epoxy resin used to install the anchors shall conform to Section 9-26.1.

5-05.3(22) Repair of Defective Pavement Slabs

In the third paragraph, the eighth and ninth sentences are deleted and replaced by the following:

Where required, an epoxy bonding agent shall be applied to the dry, cleaned surface of the cavity in a thin even coat, using a stiff-bristle brush. Placement of Portland cement concrete or epoxy concrete or mortar shall immediately follow the application of the epoxy bonding agent. The epoxy bonding agent shall meet the requirements of Section 9-26.1(1) for Type II epoxy (Portland cement concrete placement) or Type III epoxy (epoxy concrete or mortar placement). Epoxy concrete or mortar shall meet the requirements of Section 9-26.3(1)A. Low areas which grinding cannot feasibly remedy, shall be sandblasted, filled with epoxy bonded mortar, and textured by grinding. The epoxy bonding agent shall meet the requirements of Section 9-26.1(1)B for Type II epoxy.

5-05.4 Measurement

The statement "Cement concrete approach will be measured by the square yard" is deleted.

5-05.5 Payment

The bid item "Cement Conc. Approach ___ Day, per square yard" is deleted.